Claims

[1] An arrangement for reading an information carrier, comprising
a read head for scanning the information carrier along a scanning path and thereby generating one or more electrical signals in response to a pattern recorded along the scanning path;
a signal processing unit for processing the one or more electrical signals;
electrical conductors for conveying the one or more electrical signals to the signal processing unit;
characterized in that the arrangement further comprises controllable termination means for terminating at least one electrical conductor with a selectable impedance, the controllable termination means comprising at least two impedances and selecting means for selecting an impedance to terminate the at least one electrical conductor.

[2] An arrangement as claimed in claim 1, characterized in that the signal processing unit comprises the controllable termination means.

[3] An arrangement as claimed in claim 1 or 2, characterized in that the controllable termination means are able to terminate two or more electrical conductors with different selectable impedances.

[4] An arrangement as claimed in one of the claims 1 to 3, characterized in that the selectable impedance comprises a characteristic impedance of the electrical conductors.

[5] An arrangement as claimed in claim 4, characterized in that the controllable termination means are able to select the characteristic impedance when reading the information carrier at a relatively high speed and select a higher impedance when reading the information carrier at a relatively low speed.

[6] An arrangement as claimed in one of the claims 1 to 5, characterized in that one or more of the electrical signals are current outputs and in that the selectable impedance functions as a current to voltage converter.

[7] An arrangement as claimed in claim 6, characterized in that the read head performs the scanning by transmitting a radiation beam to the information carrier and receiving a reflected radiation beam from the information carrier, and in that the arrangement further comprises measuring means for measuring the reflectance of the radiation beam, and in that the controllable termination means selects an impedance dependent on the measured reflectance of the radiation beam.

[8] An arrangement as claimed in one of the claims 1 to 7, characterized in that at least one electrical conductor is terminated with a selectable impedance which is selected by optimizing one or more parameters of the electrical signal conveyed by the at least one electrical conductor.

[9] An arrangement as claimed in claim 8, characterized in that the one or more parameters comprise jitter of one or more electrical signals.

[10] An arrangement as claimed in claim 8, characterized in that the one or more parameters comprise an amplitude of one or more electrical signals.

[11] An arrangement as claimed in claim 8, characterized in that the one or more parameters comprise an overshoot of one or more electrical signals.

[12] Signal processing unit for use in an arrangement according to claim 2.